

#### Plan your Histograms

1.	Use the data table provided for the latitudes at 125° East to make a frequency table with
	bins that are 5 units wide.

2. Use the data table provided for the latitudes at 125° West to make a frequency table with

	bins that are 5 units wide.
3.	What is the x axis for each histogram?
4.	How many squares of the graph paper will you use for each bin?
5.	What is the y axis for each histogram?
6.	How much will each square of the graph paper represent?
7.	How many squares will you need to graph the tallest bar? It is easier to compare if both histograms use the same scale.
8.	What titles will you use?

#### Create the Histograms Using the Answers to the Planning Questions

- 9. Draw each set of axes using the graph paper provided.
- 10. Label each set of axes.
- 11. Add each title.
- 12. Using the frequency tables, draw the bars for each histogram.



### Plan your Box Plots

1. Use the data table provided to calculate the following. Remember to order the data from least to greatest before doing the calculations.

East	West	
Median	Median	
Minimum	Minimum	
Maximum	Maximum	
First Quartile	First Quartile	
Third Quartile	Third Quartile	
Inter-Quartile Range	Inter-Quartile Range	

2.	What label will you use for each scale? East
	West
3.	How many squares of the graph paper will you use for each unit?
4.	How many squares will you need for each scale? East West
5.	What titles will you use? East
	West
3.	Will you draw them vertically or horizontally? (Your teacher may have a preference.)

### Create the Box plot Using the Answers to the Planning Questions

- 1. Draw the scale for each box plot using the graph paper provided.
- 2. Label the scales.
- 3. Add the titles.
- 4. Using the minimum, maximum, median, lower and upper quartiles, draw the box plots.



### Plan your Scatter Plots

1.	East
	West
2.	What variable will be on the y-axis for each scatter plot?  East
	West
3.	What titles will you use? East
	West
4.	How many squares of the graph paper will you use for each unit on the x-axis for each scatter plot?  East
	West
5.	How many squares of the graph paper will you use for each unit on the y-axis for each scatter plot? They will be easier to compare if you use the same scale for both.  East
	West

#### Create the Scatter plot Using the Answers to the Planning Questions

- 6. Draw and label the x-axis and the y-axis for each scatter plot.
- 7. Label each axis on both scatter plots.
- 8. Add the title to each scatter plot.
- 9. Plot each point for each scatter plot.



## Data Table -Tropical Cyclones at 125°East and 125° West from the Equator to 40° North

125 Degrees East		125 Degrees West	
Latitude North	Number of Tropical Cyclones	Latitude North	Number of Tropical Cyclones
0	0	0	0
1	0	1	0
2	0	2	0
3	0	3	0
4	0	4	0
5	0	5	0
6	1	6	0
7	3	7	0
8	2	8	0
9	8	9	1
10	35	10	3
11	46	11	9
12	57	12	14
13	66	13	23
14	72	14	44
15	97	15	51
16	124	16	50
17	114	17	41
18	134	18	54
19	101	19	36
20	83	20	44
21	90	21	34
22	99	22	33
23	91	23	20
24	84	24	15
25	83	25	13
26	79	26	6
27	54	27	5
28	47	28	4
29	39	29	2
30	27	30	2
31	23	31	4
32	13	32	1
33	24	33	0
34	17	34	0
35	13	35	0
36	10	36	0
37	11	37	0
38	5	38	0
39	14	39	0
40	4	40	0



Bin	Frequency



Bin	Frequency